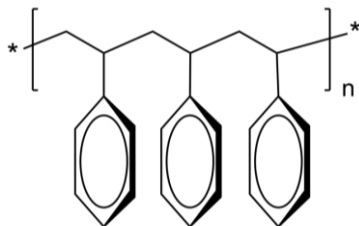


Sample Name: **Polystyrene-Isotactic**

Sample #: **P42855C-Siso**

Structure:



Composition:

$M_n \times 10^3$	PDI
75.0	2.7

Synthesis Procedure:

The polymer is prepared by anionic polymerization process in Hexane using LiOH as additive. Fractionation with Methyl ethyl ketone to separate iso fractions.

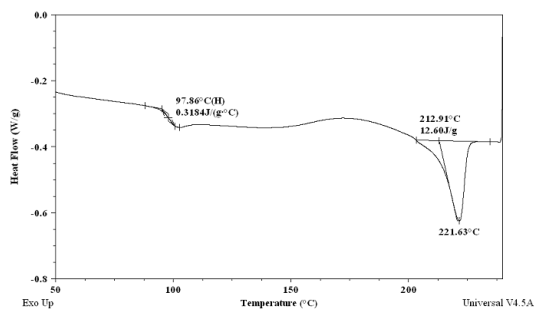
Characterization:

The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography (SEC) in THF.

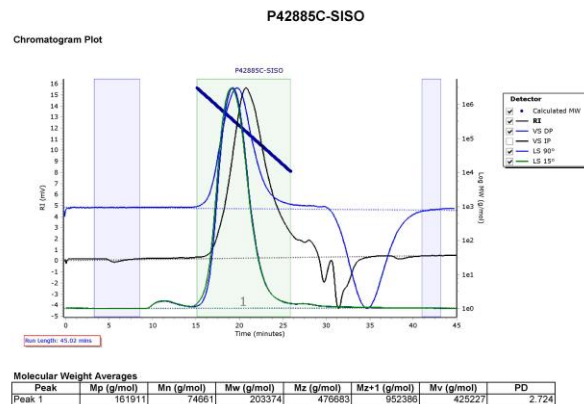
Polymer as such is not soluble in THF or in Toluene. Polymer was annealed at T_g and cool it to -20°C rapidly. Polymer now soluble in THF or in Toluene.

Thermal analysis of the samples was carried out using a differential scanning calorimeter (TA Q100) at a heating rate of $10^\circ\text{C}/\text{min}$. The inflection glass transition temperature (T_g) has been considered.

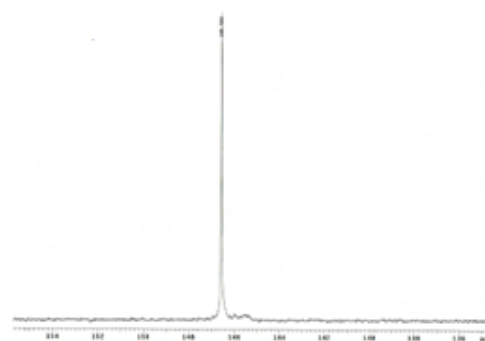
Heating at $10^\circ\text{C}/\text{min}$ and cooling at $10^\circ\text{C}/\text{min}$. This is the 3rd cycle of heating at $10^\circ\text{C}/\text{min}$.
Sample: P42855 Siso DSC File: C:\TA\Data\HomoPolymers\SP42855 -Siso.001



SEC elugram of Homopolymer:



^{13}C NMR spectrum of the Sample:



DSC thermogram of the product:

